REFERENCES

[1] Hakan Bayraktar (2005), "Experimental and Theoretical Investigation of Using Gasoline–Ethanol Blends In Spark-Ignition Engines", Journal of Renewable Energy Vol. No. 30, pp 1733–1747.

[2] M. Bahattin Celik (2008), "Experimental Determination of Suitable Ethanol–Gasoline Blend Rate at High Compression Ratio for Gasoline Engine", Journal of Applied Thermal Engineering Vol. No.28, pp 396–404.

[3] G. Najafi, et. al. (2009), "Performance and Exhaust Emissions of a Gasoline Engine With Ethanol Blended Gasoline Fuels Using Artificial Neural Network", Journal of Applied Energy Vol. No. 86, pp 630–639.

[4] Alan C. Hansen et. al. (2005), "Ethanol–Diesel Fuel Blends–A Review", Bioresource Technology Vol. No. 96, pp 277–285.

[5] Eliana Weber de Menezes et. al. (2006), "Addition of An Azeotropic ETBE/Ethanol Mixture In Eurosuper-Type Gasolines", Fuel Vol. No. 85, pp 2567–2577.

[6] Hu¨seyin Serdar Yu¨cesu, et. al. (2006), "Effect of Ethanol–Gasoline Blends on Engine Performance and Exhaust Emissions In Different Compression Ratios", Journal of Applied Thermal Engineering Vol. No. 26, pp 2272–2278.

[7] Jincheng Huang, et. al. (2009), "Experimental Investigation on the Performance and Emissions of a Diesel Engine Fuelled With Ethanol–Diesel Blends", Journal of Applied Thermal Engineering Vol. No. 29, pp 2484–2490.

[8] Mustafa Koç, et. al. (2009), "The Effects of Ethanol–Unleaded Gasoline Blends on Engine Performance and Eexhaust Emissions in a Spark-Ignition Engine", Journal of Renewable Energy Vol. No 34, pp 2101–2106.

[9] Perihan Sekmen, Yakup Sekmen (2007), "Mathematical Modeling of SI Engine Cycle With Actual Fuel Air Cycle", Mathematical and Computational Applications, Vol. No. 12, pp 161-171.

[10] M. Al- Hasan (2003), "Effect of Ethanol-Unleaded Gasoline Blends on Engine Performance and Exhaust Emissions", Energy Conservation and Management, Vol. No. 44, pp 1547-1561.

[11] Sundeep Ramachandran (2009), "Rapid Thermodynamic Simulation Model of an Internal Combustion Engine on Alternate Fuels", Proceedings of the International MultiConference of Engineers and Computer Scientists 2009, Vol. No II, IMECS 2009, , Hong Kong.

[12] M.A. Ceviz , F. Yuksel (2005), "Effects of Ethanol–Unleaded Gasoline Blends on Cyclic Variability and Emissions In an SI Engine", Applied Thermal Engineering Vol. No 25; pp 917–925.

[13] Wei-Dong Hsieh, Rong-Hong Chen, Tsung-Lin Wu, Ta-Hui Lin (2002), "Engine Performance and Pollutant Emission of an SI Engine Using Ethanol–Gasoline Blended Fuels", Atmospheric Environment Vol. No. 36; pp. 403–410.

[14] K Venkateswarlu, M Ramesh, K Veladri (2009), "Testing of Methanol-gasoline Blends as Alternative Fuel for S I Engines", IEI Journal Vol. No.90; pp 24-29.

[15] Ivan Arsie , Cesare Pianese, Rizzo (1998), "Models for Prediction of Performance and Emission in a Spark Ignition Engine- A Sequentially Structured Approach", SAE Journal.

[16] Martyn Roberts (2002), "Benefits and Challenges of Variable Compression Ratio (VCR)", SAE Jounral, Paper No: 03P-227.

[17] Antoni Jankowski, Alexander Sandel (2003), "Exhaust Emission Reduction Problems of Internal Combustion Engines Fueled With Biofuels", Journal of KONES Internal Combustion Engines, Vol. No 10, pp 3-4.

[18] Adnan Berber, Mustafa Tinkir, S. Sinan Gültekin and Ismet Çelikten (2011), "Prediction of a diesel engine characteristics by using different modelling techniques", International Journal of the Physical Sciences, Vol. No 6, pp 3977-3990.

[19] Mayur D. Bawankure, Prashant A. Potekar, Bhushan A.Nandane, Vivek R. Gandhewar (2012), " Performance Evaluation of Compression Ignition Engines By Diesel-Ethanol-Methylester Blend", International Journal of Emerging trends in Engineering and Development, ISSN 2249-6149 Issue 2, Vol. No.2

[20] Alvydas Pikūnas, Saugirdas Pukalskas, Juozas Grabys (2003), "Influence of Compostion of Gasoline-Ethanoil Blends on Parameters of Internal Combustion Engines", Journal of KONES Internal Combustion Engines, Vol. No. 10, pp 3-4

[21] Wei-Dong Hsieha, Rong-Hong Chenb, Tsung-Lin Wub, Ta-Hui Lina, (2002) "Engine Performance and pollutant emission of an SI Engine Using Ethanol–Gasoline Blended Fuels", Atmospheric Environment, Vol. No. 36, pp 403–410

[22] Wayne Moore, Matthew Foster and Kevin Hoyer (2011), "Engine Efficiency Improvements Enabled by Ethanol Fuel Blends in a GDi VVA Flex Fuel Engine", Paper: 2011-01-0900, SAE Journal.

[23] N. Seshaiah (2010), "Efficiency and Exhaust Gas Analysis of Variable Compression Ratio Spark Ignition Engine Fuelled With Alternative Fuels", International Journal of Energy and Environment", Vol. No. 1, Issue 5, pp 861-870.

[24] Dr. A. R. A. Habbo, Raad A. Khalil, Hassan S. Hammoodi (2011), "Effect of Magnetizing the Fuel on the Performance of an S.I. Engine", Al-Rafidain Engineering Vol. No. 19.

[25] Shailesh Kumar Trivedi, Abid Haleem (2012), "Analysis of Cogeneration Based Wet Ethanol Operated HCCI Engine Using First and Second Law of Thermodynamics", International Journal of Engineering Science and Technology (IJEST), ISSN: 0975-5462 Vol. No. 4.

[26] Peerawat Saisirirat, Anthony Dubreuil, Fabrice Foucher, Christine Mounaïm-Rousselle, , Somchai Chanchaona (2007), "A Study of HCCI Combustion for Hydrocarbon-Ethanol Mixture: an Explanation of the Homogeneous Charge Spontaneous Combustion", The 21st Conference of Mechanical Engineering Network of Thailand, , Chonburi, Thailand

[27] Rodrigo C. Costa, José R. Sodré (2010) , "Hydrous Ethanol vs. Gasoline-Ethanol Blend: Engine Performance and Emissions", Fuel, Vol. No. 89, pp 287–293

[28] Er. Milind S Patil, Dr. R. S. Jahagirdar, Er. Eknath R Deore (2010), "Performance Test of IC Engine Using Blends of Ethanol and Kerosene with Diesel", International Journal of Engineering Science and Technology, Vol. No. 2(8), 3503-3509

[29] C.Ananda Srinivasan and C.G.Saravanan (2010), "Emission Reduction on Ethanol – Gasoline Blends Using 1, 4 Dioxan", Proceedings of the World Congress on Engineering 2010, Vol. No. II, WCE 2010

[30] S. Y. Liao, D. M. Jiang, Q. Cheng, Z. H. Huang, and Q. Wei(2005), "Investigation of the Cold-Start Combustion Characteristics of Ethanol-Gasoline Blends in a Constant-Volume Chamber", Energy & Fuels, Vol. No. 19, 813-819.

[31] Suri Rajan and Fariborz F. Saniee (1983), "Water Ethanol-Gasoline Blends As Spark Ignition Engine Fuels", FUEL, Vol. No. 62.

[32] Wei-Dong Hsieha, Rong-Hong Chenb, Tsung-Lin Wub, Ta-Hui Lina (2002), "Engine Performance and Pollutant Emission of an SI Engine Using Ethanol–Gasoline Blended Fuels", Atmospheric Environment, Vol. No. 36, pp 403–410

[33] Hsi-Hsien Yang , Ta-Chuan Liu , Chia-Feng Chang , Eva Lee, "Effects of Ethanol-Blended Gasoline on Emissions of Regulated Air Pollutants and Carbonyls From Motorcycles"

[34] John M. E. Storey, Teresa L. Barone, Kevin M. Norman, and Samuel A. Lewis, Sr. (2010), "Ethanol Blend Effects on Direct Injection Spark-Ignition Gasoline Vehicle Particulate Matter Emissions", 2010-01-2129, SAE Journal.

[35] V. Arul Mozhi Selvan, R. B. Anand and M. Udayakumar (2009), " Effects of Cerium Oxide Naoparticale Addition on Diesel-Biodeisel-Etahnol Blends on The Performacne and Emission Characteristics of a CI Engine", ARPN Journal of Engineering and Applied Sciences, Vol. No. 4.

[36] Radivoje Pešić, Snežana Petković, Golec Kazimierz, Emil Hnatko, Stevan Veinović (2008), " Advances in Internal Combution Engine Biofuels and Delusions of the Kyoto Protocol", International Congress Motor Vehicles & Motors, Kragujevac.

[37] Shane Curtis, Mark Owen, Terrence Hess and Scott Egan, "Effect of Ethanol Blends on a Spark Ignition, 4-Stroke, Internal Combustion Engine"

[38] R. Scott Frazier, "Ethanol Gasoline Blends and Small Engines", Oklahoma Cooperative Extension Service, BAE-1746.

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